AP4 Rec'd PCTAPTO 1 9 DEC 2005

A-9800

FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE (REV. 7-2005)

## TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371

U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/561433

NTERNATIONAL APPLICATION NO.
PCT/DE04/00115

INTER		PCT/DE04/00115	02 June 2004 (02.06.04)	PRIORITY DATE CLAIMED  17 June 2003 (17.06.03)				
TITLE	TITLE OF INVENTION							
Device with a Heat Source Formed by a Function Element that is to be Cooled, at Least One Heat Sink, and at Least One								
Intermediate Layer Located Between the Heat Source and the Heat Sipk P E								
APPL	ICAN	T(S) FOR DO/EO/US	/ %					
Jurge	n Sch	ulz-Harder and Ernst Hammel	DEC 1 9 2005					
			DEC 1	<i>ğ)</i>				
Applic	ant he	erewith submits to the United State	s Designated/Elected Office QO/EO/US) the	ollowing items and other information:				
1.	$\boxtimes$	This is a FIRST submission of iter	ms concerning a submission under 35 U.S.C.	371.				
2.		This is a SECOND or SUBSEQUE	ENT submission of items concerning a submis	sion under 35 U.S.C. 371.				
3.	$\boxtimes$	This is an express request to begin (9) and (24) indicated below.	n national examination procedures (35 U.S.C.	371(f)). The submission must include items (5), (6),				
4.	$\boxtimes$	The US has been elected (Article	31).					
5.	$\boxtimes$	A copy of the International Applica	ation as filed (35 U.S.C. 371 (c)(2))					
		a.  is attached hereto (requi	red only if not communicated by the Internation	onal Bureau).				
		b. 🗵 has been communicated	by the International Bureau.					
		c.  is not required, as the ap	oplication was filed in the United States Receiv	ving Office (RO/US).				
6.	$\boxtimes$	An English language translation o	f the International Application as filed (35 U.S.	C. 371(c)(2)).				
		a. 🛛 is attached hereto.						
		b.   has been previously sub	mitted under 35 U.S.C. 154(d)(4).					
7.		Amendments to the claims of the	International Application under PCT Article 19	(35 U.S.C. 371 (c)(3))				
		a.   are attached hereto (req	uired only if not communicated by the Internat	ional Bureau).				
		b. $\square$ have been communicate	ed by the International Bureau.					
		c. $\square$ have not been made; ho	wever, the time limit for making such amendm	nents has NOT expired.				
	÷	d. $\Box$ have not been made and	d will not be made.					
8.		An English language translation o	f the amendments to the claims under PCT Ar	ticle 19 (35 U.S.C. 371(c)(3)).				
9.	$\boxtimes$	An oath or declaration of the inver	ntor(s) (35 U.S.C. 371 (c)(4)).	•				
10.		An English language translation o Article 36 (35 U.S.C. 371 (c)(5)).	f the annexes to the International Preliminary	Examination Report under PCT				
11.	$\Box$	A copy of the International Prelimi	nary Examination Report (PCT/IPEA/409).					
12.	$\boxtimes$	A copy of the International Search	Report (PCT/ISA/210).					
lte	ems 1	3 to 23 below concern document	(s) or information included:					
13.	$\boxtimes$	An Information Disclosure Staten	nent under 37 CFR 1.97 and 1.98.					
14.		An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.						
15,	$\boxtimes$	A FIRST preliminary amendment.						
16.		A SECOND or SUBSEQUENT preliminary amendment.						
17.	$\boxtimes$	A substitute specification.						
18.		A power of attorney and/or change of address letter.						
19.		A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.						
20.		A second copy of the published International Application under 35 U.S.C. 154(d)(4).						
21.		A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).						
22. Express Mail Label No.								
l								

## MAP12 Rec'd PCT/PTO 19 DEC 2005

PTO-1390 (Rev. 07-2005)
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO (if known, see 37 CFR 1.5) INTERNATIONAL APPLICATION NO.			ATTORNEY'S DOCKET NUMBER					
10/561433 PCT/DE04/00115				A-9800				
23. Other items or information:								
The following	fees have been s	ubmitted:	<del></del>				CALCULATIONS	PTO USE
						\$300	\$ \$300.00	
25. 🖾 Examination fee (37 CFR 1.492(c))  If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article  \$0  All other situations						\$ \$200.00		
26. ☑ Search fee (37 CFR 1.492(b))  If the written opinionof the ISA/US or the International preliminary examination report by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) \$0  Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the as an International Searching Authority						\$100 e	\$ \$400.00	
TOTAL	L OF 24, 25 and	26 =				-	\$ \$900.00	
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)).  The fee is \$250 for each additional 50 sheets of paper or fraction thereof.  Total Sheets Extra Sheets Number of each additional 50 or RATE								
- 100 =	0 /50 =	traction	thereof (round up to a wi	IUIE	x \$25		\$ \$0.00	
- 100 = 0 /50 = 0 x \$250.00  Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).					th or	\$		
CLAIMS	NUMBER F		NUMBER EXTRA		RATE			
Total claims	52	- 20 =	32	×	\$5	0.00	\$ \$1,600.00	
Independent clair	ms 2	- 3=	0	×	\$20	00.00	\$ \$0.00	
MULTIPLE DEPI	ENDENT CLAIMS	(if applica	ble)	+	\$36	0.00	\$ \$0.00	
TOTAL OF ABOVE CALCULATIONS =					NS =	\$ \$2,500.00		
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.					by	\$ \$1,250.00		
					SUBTO		\$ \$1,250.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).					\$ \$0.00			
TOTAL NATIONAL FEE =					\$ \$1,250.00			
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +					\$ \$0.00			
TOTAL FEES ENCLOSED =					\$ \$1,250.00			
							Amount to be	\$
							Amount to be	\$

PTO-1390 (Rev. 07-2005)
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

a. 🔀	A check in the amount of \$	\$1,250.00	to cover the above fees is enclosed.					
b. 🗀	Please charge my Deposit Ad A duplicate copy of this shee		in the amount of \$	to cover the above fees.				
c. 🛚	The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>08-2455</u> . A duplicate copy of this sheet is enclosed.							
d. 🗀	d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.							
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.								
SEND ALL CORRESPONDENCE TO:								
Stewa	Stewart L. Gitler, Esq. SIGNATURE							
Hoffman, Wasson & Gitler, P.C. Stewart L. Gitler								
	South Clark Street al Center 2 - Suite 522		NAME	NAME				
	gton, VA 22202		31,256	31,256				
703.41	5.0100		REGISTRATION NU	REGISTRATION NUMBER				
Custo	mer No. 20741		12-19-05					
			DATE	DATE				